

# INFORMATION DISCLOSURE CITATION

PTO-1449


 ATTY. DOCKET NO.  
A-64558-1/RFT/RMS

 SERIAL NO.  
08/873,597

 APPLICANT  
Kayyem, et al.

 FILING DATE  
June 12, 1997

 GROUP  
1655

## U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE

## FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No
JTC	A	93/22678	11/1993	PCT				
JTC	B	97/44651	11/1997	PCT				

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


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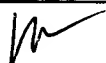
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				Application Number	08/873,597
				Filing Date	June 12, 1997
				First Named Inventor	KAYYEM et al.
				Group Art Unit	1645
				Examiner Name	J. Taylor Cleveland
Sheet	1	of	8	Attorney Docket Number	A-64558-1

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
✓	1	5,552,270		Khrapko et al.	09/1996	
	2	5,571,568		Ribi et al.	11/1996	
	3	5,741,700		Ershov et al.	04/1998	
	4	5,756,050		Ershov et al.	05/1998	
	5	5,770,721		Ershov et al.	06/1998	
	6	5,776,672		Hashimoto et al.	07/1998	
	7	5,837,859		Teoule et al.	11/1998	
	8	5,851,772		Mirzabekov et al.	12/1996	
	9	6,060,327		Keen	05/2000	
✓	10	6,203,758	B1	Marks et al.	03/2001	

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)				
✓	11	WO	86/05815		Genetics International Inc.	03/1985		
	12	WO	97/27329		The University of Chicago	07/1997		
	13	WO	98/27229		The University of Chicago	06/1998		
	14	WO	98/28444		The University of Chicago	07/1998		
	15	WO	98/35232		University of N. Carolina at Chapel Hill	08/1998		
	16	WO	98/57159		Clinical Micro Sensors	06/1997		
	17	WO	99/14596		AB Sangtec Medical	03/1999		
	18	WO	99/67425		Clinical Micro Sensors	12/1999		

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<i>N</i>	19	5,705,348		Meade et al.	01/1998	
	20	5,770,369		Meade et al.	06/1998	
	21	5,780,234		Meade et al.	07/1998	
	22	5,824,473		Meade et al.	10/1998	
<i>W</i>	23	5,952,172		Meade et al.	09/1999	

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<i>N</i>	24	WO	98/20162		Clinical Micro Sensors	05/1998	

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
W	25	Aizawa et al., "Integrated Molecular Systems for Biosensors," Sensors and Actuators B, B@S (Nos 1/3) Part 1:1-5 (March 1995).	
W	26	Albers et al., "Design of Novel Molecular Wires for Realizing Long-Distance Electron Transfer," Biochemistry and Bioenergetics, 42:25-33 (1997).	
	<del>27</del>	<del>Baum, R. M., "Views on Biological Long-Range Electron Transfer Stir Debate," C&amp;EN, pp 20-23 (1993).</del>	
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	29	Dubiley, S. et al., "Fractionation, phosphorylation and Ligation on Oligonucleotide Microchips to Enhance Sequencing by Hybridization," Nucleic Acids Research, 25(12):2259-2265 (1997).	
	30	Elghanian et al., "Selective Colorimetric Detection of Polynucleotides Based on the Distance-Dependent Optical Properties of Gold Nanoparticles," Science, 277:1078-1081 (1997).	
	31	Fotin, A. et al., "Parallel Thermodynamic Analysis of Duplexes on Oligodeoxyribonucleotide Microchips," Nucleic Acids Research, 216(6):1515-1521 (1998).	
	32	Guschin, D. et al., "Manual Manufacturing of Oligonucleotide, DNA, and Protein Microchips," Analytical Biochemistry, 250:203-211 (1997).	
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	34	Kamat et al., J. Phys. chem., 93(4):1405-1409 (1989).	
	35	Korri-Youssoufi et al., "Toward Bioelectronics: Specific DNA Recognition Based on an Oligonucleotide-Functionalized Polypyrrole," J. Am. Chem. Soc., 119(31):7388-7389 (1997).	
	36	Lincoln et al., "Shorting Circuiting the Molecular Wire," J. Am. Chem. Soc., 119(6):1454-1455 (1997).	
	37	Livshits, M. et al., "Theoretical Analysis of the Kinetics of DNA Hybridization with Gel-Immobilized Oligonucleotides," Biophysical Journal, 71:2795-2801 (1996).	
	38	Mirkin et al., "A DNA-based Method for Rationally Assembling Nonoparticles into Macroscopic Materials," Nature, 382:607-609 (1996).	
	39	Mirzabekov, A. et al., "Dna Sequencing by Hybridization - a Megasequencing Method and a Diagnostic Tool," Tibtech, 12:27-32 (1994).	
W	40	Mitchell et al., "Programmed Assembly of DNA Functionalized Quantum Dots," J. Am. Chem. Soc., 121:8122-8123 (1999).	

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				Filing Date	June 12, 1997
				First Named Inventor	KAYYEM et al.
				Group Art Unit	1645
				Examiner Name	J. Taylor Cleveland
Sheet	4	of	8	Attorney Docket Number	A-64558-1

[illegible]

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Sheet	5	of	8		

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		Number	Kind Code <sup>2</sup> (if known)			
14	52	4,704,193		Bowers et al.	11/1987	
	53	4,787,963		Mac Connell	11/1988	
	54	4,945,045		Forrest et al.	07/1990	
	55	5,089,112		Skothheim et al.	02/1992	
	56	5,180,968		Bruckenstein et al.	01/1993	
	57	5,242,828		Bergstrom et al.	09/1993	
	58	5,356,786		Heller et al.	10/1994	
	59	5,391,272		O'Daly	02/1995	
	60	5,436,161		Bergstrom et al.	07/1995	
11	61	5,443,701		Willner et al.	08/1995	

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)				
1	62	WO	97/31256		Cornell Research Foundation Inc.	08/1997		
	63	WO	97/41425		Pence, Inc.	11/1997		
	64	WO	98/12539	A1	Meso Scale Technologies, LLC.	03/1998		
	65	WO	98/31839	A2	Presidents and Fellows of Harvard College	07/1998		
	66	WO	98/51823		Mosaic Technology	11/1998		
	67	WO	99/29711		Nanogen, Inc.	06/1999		
	68	WO	99/37819	A2	Clinical Micro Sensors	07/1999		
	69	WO	99/57317	A1	Clinical Micro Sensors	11/1999		
12	70	WO	99/57319		Clinical Micro Sensors	11/1999		

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M	71	5,632,957		Heller et al.	05/1997	
	72	5,700,667		Marble et al.	12/1997	
	73	5,795,453		Gilmartin	08/1998	
	74	5,837,859		Teoule et al.	11/1998	
	75	5,849,486		Heller et al.	12/1998	
	76	5,976,802		Ansorge et al.	11/1999	
	77	6,096,825		Garnier	08/2000	
	78	6,107,080		Lennox	08/2000	
	79	6,207,369	B1	Wohlstadter et al.	03/2001	

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N	80	WO	97/46568	A1	California Institute of Technology	12/1997		

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	82	6,071,699		Meade et al.	06/2000	
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	84	6,096,273		Kayyem et al.	08/2000	
	85	6,177,250	B1	Meade et al.	01/2001	
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	89	6,277,576	B1	Meade et al.	08/2001	
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	96	6,322,979	B1	Bamdad et al.	11/2001	
	97	6,306,584	B1	Bamdad	10/2001	
	98	6,232,062	B1	Kayyem et al.	05/2001	
	99	01-0046679	A1	Meade et al.	11/2001	
m	100	01-0034033	A1	Meade et al.	10/2001	

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				Examiner Name	J. Taylor Cleveland
				Attorney Docket Number	A-64558-1
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[illegible]

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English Language Translation is attached.

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